



# 9

## SEQUENCE LISTING

<110> GILL, Peter  
HUSSAIN, Javaid  
LONG, Adam

<120> Improvements in and relating to analysis of DNA

<130> 7500.331USC1

<140> 10/034,692

<141> 2001-12-27

<150> PCT/GB00/02795

<151> 2000-07-24

<150> GB9917307.2

<151> 1999-07-23

<150> GB0009187.6

<151> 2000-04-14

<160> 42

<170> PatentIn Ver. 2.1

<210> 1

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer sequence designed to act as a molecular beacon and referred to at page 13 of the application.

<400> 1

acgcgctctc ttcttctttt gcgcg

25

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal reporter primer forward sequence designed to optimally prime at 60 degrees C, page 29. r = g or c or a or t

<400> 2

cgacgtggtg gatgtgctar

20

<210> 3

<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer reverse sequence designed to optimally prime at approximately 60 degrees C, page 29.

<400> 3  
tgacctggct gactcgactg 20

<210> 4  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer reverse sequence designed to optimally prime at 60 degrees C, page 30.

<400> 4  
tgccgtggct gacctgagac 20

<210> 5  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 5  
gtattttcgt ctggggggta 20

<210> 6  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 6  
gtctgtcttt gattcctgcc c 21

<210> 7  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 7  
tttgattcct gcctcatccc 20

<210> 8  
<211> 20

<212> DNA  
 <213> Homo sapiens  
  
 <400> 8  
 atattacagg cgaacataacc 20  
  
 <210> 9  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 9  
 gcttgtagga cataataata acaatta 27  
  
 <210> 10  
 <211> 22  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 10  
 cagagatgtg tttaagtgt gt 22  
  
 <210> 11  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens  
 <223> r = g or t  
  
 <400> 11  
 accagctttg ccagttccr 19  
  
 <210> 12  
 <211> 16  
 <212> DNA  
 <213> Homo sapiens  
 <223> x = c or sa  
  
 <400> 12  
 ttccgtgggt gtggcx 16  
  
 <210> 13  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 13  
 ggcagagcga ctaaaagcaa a 21  
  
 <210> 14  
 <211> 37  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer with an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 47.

<400> 14

cgacgtggtg gatgtgctag gttccgtggg tgtggcc

37

<210> 15

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A Human Gc reverse primer with an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 47.

<400> 15

tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a

41

<210> 16

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal molecular beacon primer sequence designed to detect universal primer 9G polymorphism, page 47.

<400> 16

acgcgtcttc ttcttctttt gcgcgcgacg tggatgatgt gctag

45

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial reverse primer sequence designed to detect universal reverse 11 primer sequence, page 47.

<400> 17

tgacgtggct gacctgagac

20

<210> 18

<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 18  
cgacgtggtg gatgtgctag accagctttg ccagttccg

39

<210> 19  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 19  
cgacgtggtg gatgtgcttc accagctttg ccagttcct

39

<210> 20  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 20  
cgacgtggtg gatgtgctag gttccgtggg tgtggcc

37

<210> 21  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 21  
cgacgtggtg gatgtgcttc gttccgtggg tgtggca

37

<210> 22  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human Gc reverse primer attached to an artificial universal primer tag to detect SNP polymorphisms at Gcls/lf, page 48.

<400> 22  
tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a 41

<210> 23  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9G polymorphism.

<400> 23  
acgcgtctc ttcttctttt gcgcgcgacg tggtagatgt gctag 45

<210> 24  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9C polymorphism.

<400> 24  
acgcgtctc ttcttctttt gcgcgcgacg tggtagatgt gcttc 45

<210> 25  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal ll sequence, page 48.

<400> 25  
tgacgtggct gacctgagac

20

<210> 26  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A Human  
Amelogenin sequence forward primer attached to an  
artificial universal sequence to detect Amelogenin  
X polym.

<400> 26  
cgacgtggtg gatgtgcttc tgagccaatg gtaaacctgc c

41

<210> 27  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A Human  
Amelogenin sequence forward primer attached to an  
artificial universal sequence to detect Amelogenin  
Y polym.

<400> 27  
cgacgtggtg gatgtgctag tgagccaatg gtaaacctgc a

41

<210> 28  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A Human  
Amelogenin sequence reverse primer attached to an  
artificial universal sequence to detect Amelogenin  
X/Y polymorphism; n designates inosine..

<400> 28  
tgacgtggct gacctgagac cataggaagn gtactggtga gaaaca

46

<210> 29  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial  
molecular beacon forward primer attached to a

universal primer tag to detect universal primer 9G polymorphism.

<400> 29  
acgcgctctc ttcttctttt gcgcgcgacg tggtagatgt gctag 45

<210> 30  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal 9C polymorphism, page 49.

<400> 30  
acgcgctctc ttcttctttt gcgcgcgacg tggtagatgt gcttc 45

<210> 31  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal 11 sequence, page 48.

<400> 31  
tgacgtggct gacctgagac 20

<210> 32  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial forward universal primer attached to human Gc1s sequence, page 57.

<400> 32  
ctagctggtg gctgtgctag gttccgtggg tgtggcc 37

<210> 33  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial



reverse universal primer attached to human Gc  
sequence to detect Gc1s/1f polymorphisms, page 57.

<400> 33  
ctagctggtg gctgtgctag ggcagagcga ctaaaagcaa a 41

<210> 34  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human  
alpha-1- antitrypsin forward sequence attached to  
an artificial universal primer to detect  
alpha-1.M1S polym.

<400> 34  
ctagctggtg gctgtgctag aggggaaact acagcacctg ga 42

<210> 35  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human  
alpha-1- antitrypsin forward sequence attached to  
an artificial universal primer to detect alpha-1.S  
polym, Fig 11.

<400> 35  
ctagcctggt gtgtggctag aggggaaact acagcacctg gt 42

<210> 36  
<211> 43  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human  
alpha-1- antitrypsin reverse sequence attached to  
an artificial universal primer to detect  
alpha-1.M1S polym.

<400> 36  
ctagctgctg tgggtggctag tggatgat atcgtgggtg agt 43

<210> 37  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 37  
cctgaagcca cacccacgga actggca 27

<210> 38  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 38  
agttccgtgg gtgtggcc 18

<210> 39  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 39  
cctgaggcca cacccacgga actggca 27

<210> 40  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 40  
cctgaggcca cacccaagga actggca 27

<210> 41  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Self  
complimentary universal forward reporter primer  
artificial sequence, Figure 25c.

<400> 41  
ctagctggtg gctgtgctag 20

<210> 42  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Self  
complimentary universal reverse reporter primer  
artificial sequence, Figure 25c.

<400> 42  
ctagctggtg gctgtgctag 20